

~~CONFIDENTIAL~~

EXT BYND BYTES BY
REASON

25X1A2g

(Phase B)

7 December 1964

Sponsors Field Representative, Project (Phase B)

25X1A2g

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Project (Phase B); Testing of Grounding System
and Power Cables, Information Concerning.

1. On 4 December 1964, of your office 25X1A
took megger readings for the purpose of verifying building grounds and
quality of cables. Results are indicated below:

a. Operating Room No. 1 - Ground readings
were taken between the copper grounding buss on the west
side of the room and the purlins on the east and north
sides of the room. Zero readings were obtained. An
average reading of 1 meg ohm was obtained between the
buss and the deck.

b. Operating Room No. 2 - Ground readings
were taken between the copper grounding buss on the west
side of the room and the columns on the west side and
purlins on the east side of the room. Zero readings
were obtained.

c. Control Room - Ground readings were
taken between the copper grounding buss on the west
side of the room and the columns on the east and west
sides of the room. Zero readings were obtained.

d. Shop Area - Ground readings were taken
between the copper grounding buss and the purlin along
the north wall. Zero readings were obtained.

e. Utility Room, Toilet Area, Lounge, Storage
Room, Power Building - Readings were taken between
various parts of the structure and cold water lines or
ground rods. Zero readings were obtained.

f. Distribution panel for plug in buss duct -
Readings were obtained as follows: (Items listed to
resemble panel as observed when facing it)

TOP SECRET

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SUBJECT : Project [REDACTED] (Phase B); Testing of Grounding System and Power Cables, Information Concerning.

<u>Terminal</u>	<u>Reading</u>	<u>Terminal</u>	<u>Reading</u>
1	20 meg ohms	1	Infinity
2	40 meg ohms	2	10 meg ohms
3	30 meg ohms	3	100 meg ohms
4	7 meg ohms	4	Infinity
5	30 meg ohms	5	100 meg ohms
6	6 meg ohms	6	50 meg ohms

g. Feed Cables from manhole to main panel -
Inasmuch as the cables at the manhole end were submerged in water, realistic readings could not be obtained. The [REDACTED] electrician was requested to dry the cables and place heat lamps in the manhole to dry out the cables so that readings could be taken on 7 December 1964.

2. It is considered that the readings recorded in 1a through 1e above indicate satisfactory grounding of the transmitter building. Although it is considered that all readings recorded in 1f above should be infinity, it is believed that all readings except the 7 and 6 meg ohms readings are acceptable. I plan to have all readings reviewed by the sponsor's electrical engineer and will provide you with a decision as to acceptability via [REDACTED] channels. I will discuss this with [REDACTED] representative [REDACTED] with the hope of resolving the problem there.

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